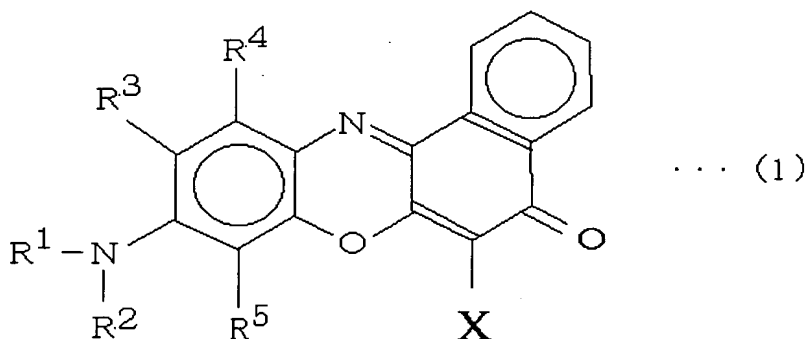


AMENDMENTS TO THE CLAIMS, COMPLETE LISTING OF CLAIMS
IN ASCENDING ORDER WITH STATUS INDICATOR

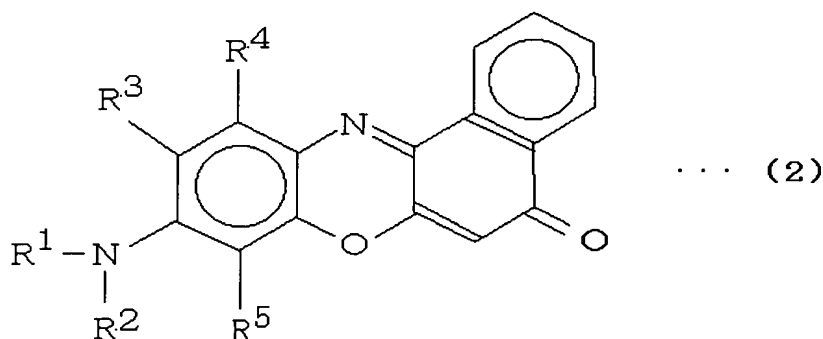
Please amend the following claims as indicated.

1. (Withdrawn) A Nile red luminescent compound emitting red light that has a structure represented by formula (1):



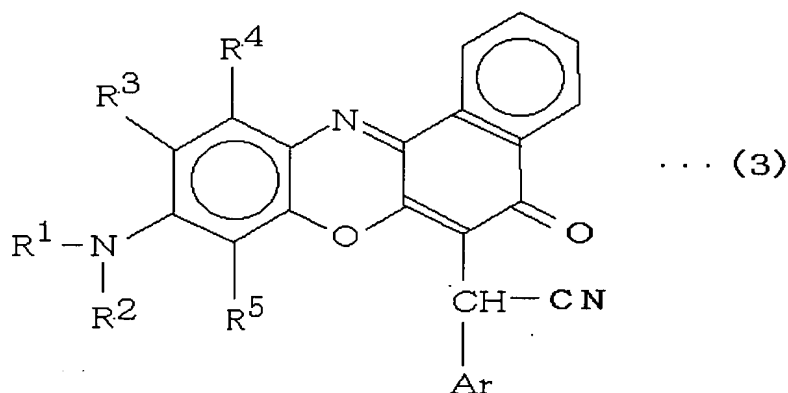
wherein R^1 is hydrogen atom or an alkyl group, or forms $-CH_2CH_2-CR^6R^7-$ together with R^3 (wherein the carbon atom of $-CR^6R^7-$ moiety is bound to the benzene moiety of the formula (1), each of R^6 and R^7 is hydrogen atom or an alkyl group, and R^6 and R^7 may be the same or different from each other); R^2 is hydrogen atom or an alkyl group, or forms $-CH_2CH_2-CR^8R^9-$ together with R^5 (wherein the carbon atom of $-CR^8R^9-$ moiety is bound to the benzene moiety of the formula (1), each of R^8 and R^9 is hydrogen atom or an alkyl group, and R^8 and R^9 may be the same or different from each other); R^3 is hydrogen atom, forms $-CH_2CH_2-CR^6R^7-$ with R^1 , or forms with R^4 a naphthalene ring including as a part thereof the benzene moiety of the formula (1); R^4 is hydrogen atom, or forms with R^3 a naphthalene ring including as a part thereof the benzene moiety of the formula (1); R^5 is hydrogen atom, or forms $-CH_2CH_2-CR^8R^9-$ with R^2 ; and X is a halogen atom.

2. (Withdrawn) A process of producing the Nile red luminescent compound emitting red light represented by the formula (1), comprising reacting with a halogenating agent a Nile red pigment represented by general formula (2):



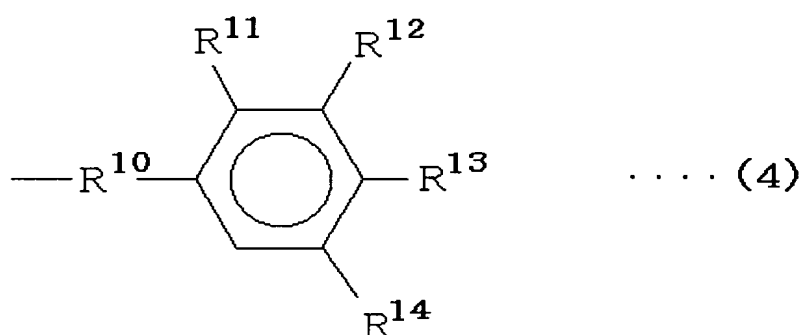
wherein R^1 is hydrogen atom or an alkyl group, or forms $-\text{CH}_2\text{CH}_2-\text{CR}^6\text{R}^7-$ together with R^3 (wherein the carbon atom of $-\text{CR}^6\text{R}^7-$ moiety is bound to the benzene moiety of the formula (1), each of R^6 and R^7 is hydrogen atom or an alkyl group, and R^6 and R^7 may be the same or different from each other); R^2 is hydrogen atom or an alkyl group, or forms $-\text{CH}_2\text{CH}_2-\text{CR}^8\text{R}^9-$ together with R^5 (wherein the carbon atom of $-\text{CR}^8\text{R}^9-$ moiety is bound to the benzene moiety of the formula (1), each of R^8 and R^9 is hydrogen atom or an alkyl group, and R^8 and R^9 may be the same or different from each other); R^3 is hydrogen atom, forms $-\text{CH}_2\text{CH}_2-\text{CR}^6\text{R}^7-$ with R^1 , or forms with R^4 a naphthalene ring including as a part thereof the benzene moiety of the formula (1); R^4 is hydrogen atom, or forms with R^3 a naphthalene ring including as a part thereof the benzene moiety of the formula (1); and R^5 is hydrogen atom, or forms $-\text{CH}_2\text{CH}_2-\text{CR}^8\text{R}^9-$ with R^2 .

3. (Withdrawn) A Nile red compound emitting red light that has a structure represented by formula (3).

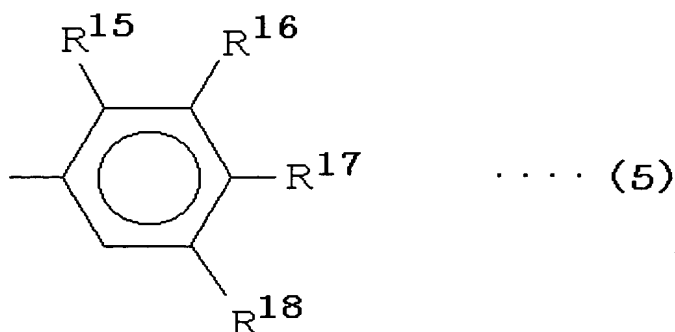


wherein R^1 is hydrogen atom or an alkyl group, or forms $-\text{CH}_2\text{CH}_2-\text{CR}^6\text{R}^7-$ together with R^3 (wherein the carbon atom of $-\text{CR}^6\text{R}^7-$ moiety is bound to the benzene moiety of the formula (1), each of R^6 and R^7 is hydrogen atom or an alkyl group, and R^6 and R^7 may be the same or

different from each other); R^2 is hydrogen atom or an alkyl group, or forms $-\text{CH}_2\text{CH}_2-\text{CR}^8\text{R}^9-$ together with R^5 (wherein the carbon atom of $-\text{CR}^8\text{R}^9-$ moiety is bound to the benzene moiety of the formula (1), each of R^8 and R^9 is hydrogen atom or an alkyl group, and R^8 and R^9 may be the same or different from each other); R^3 is hydrogen atom, forms $-\text{CH}_2\text{CH}_2-\text{CR}^6\text{R}^7-$ with R^1 , or forms with R^4 a naphthalene ring including as a part thereof the benzene moiety of the formula (1); R^4 is hydrogen atom, or forms with R^3 a naphthalene ring including as a part thereof the benzene moiety of the formula (1); R^5 is hydrogen atom, or forms $-\text{CH}_2\text{CH}_2-\text{CR}^8\text{R}^9-$ with R^2 ; and Ar means one of formulae (4), (6) and (7):

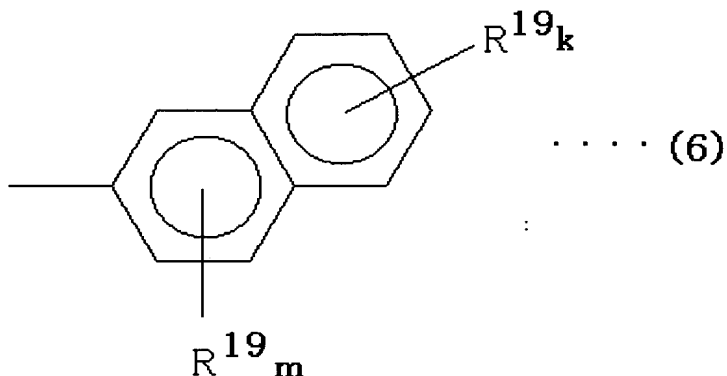


wherein R^{10} is a single chemical bond or methylene group; R^{11} is hydrogen atom, or forms $-\text{CF}_2-\text{O}-\text{CF}_2-$ with R^{12} ; R^{12} is fluorine atom, cyano group or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom, forms $-\text{CF}_2-\text{O}-\text{CF}_2-$ with R^{11} , or forms $-\text{CF}_2-\text{O}-\text{CF}_2-$ with R^{13} ; R^{13} is hydrogen atom, cyano group, fluorine atom or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom, forms $-\text{CF}_2-\text{O}-\text{CF}_2-$ with R^{12} , or is a group represented by formula (5); and R^{14} is hydrogen atom or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom when R^{13} is hydrogen atom, and R^{14} is hydrogen atom when R^{13} is not hydrogen atom,

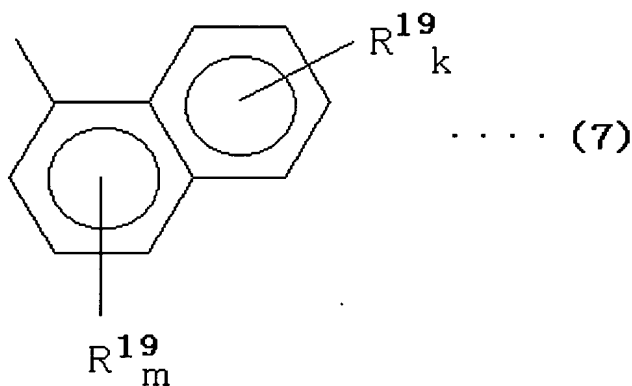


wherein R^{15} is hydrogen atom, or forms $-\text{CF}_2-\text{O}-\text{CF}_2-$ with R^{16} ; R^{16} is fluorine atom, cyano group or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom, forms $-\text{CF}_2-\text{O}-\text{CF}_2-$ with

R^{15} , or forms $-CF_2-O-CF_2-$ with R^{17} ; R^{17} is hydrogen atom, cyano group, fluorine atom or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom, or forms $-CF_2-O-CF_2-$ with R^{16} ; and R^{18} is hydrogen atom or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom when R^{17} is hydrogen atom, and R^{18} is hydrogen atom when R^{17} is not hydrogen atom,

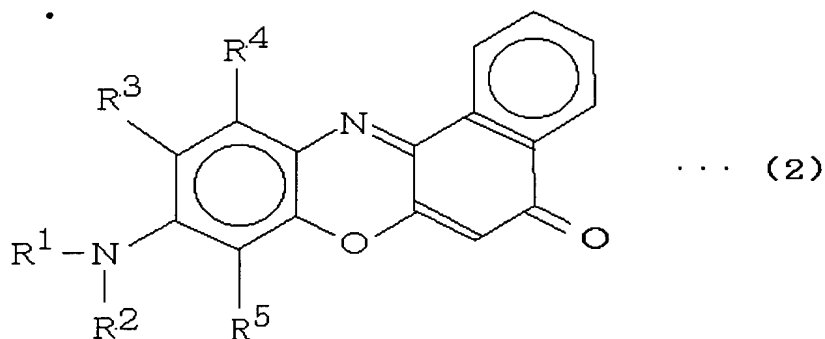


wherein R^{19} is fluorine atom, cyano group, or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom; k is an integer of 1-4, m is an integer of 1-3, and all of the R^{19} groups may be the same or different from each other,



wherein R^{19} is fluorine atom, cyano group, or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom; k is an integer of 1-4, m is an integer of 1-3, and all of the R^{19} groups may be the same or different from each other.

4. (Withdrawn) A process of preparing the Nile red luminescent compound emitting red light represented by the formula (3) comprises reacting the Nile red pigment compound represented by the formula (2) with an electron attractive aromatic acetonitrile represented by formula (8):

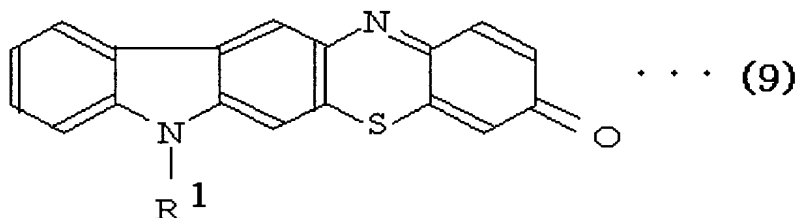


wherein R^1 is hydrogen atom or an alkyl group, or forms $-\text{CH}_2\text{CH}_2-\text{CR}^6\text{R}^7-$ together with R^3 (wherein the carbon atom of $-\text{CR}^6\text{R}^7-$ moiety is bound to the benzene moiety of the formula (1), each of R^6 and R^7 is hydrogen atom or an alkyl group, and R^6 and R^7 may be the same or different from each other); R^2 is hydrogen atom or an alkyl group, or forms $-\text{CH}_2\text{CH}_2-\text{CR}^8\text{R}^9-$ together with R^5 (wherein the carbon atom of $-\text{CR}^8\text{R}^9-$ moiety is bound to the benzene moiety of the formula (1), each of R^8 and R^9 is hydrogen atom or an alkyl group, and R^8 and R^9 may be the same or different from each other); R^3 is hydrogen atom, forms $-\text{CH}_2\text{CH}_2-\text{CR}^6\text{R}^7-$ with R^1 , or forms with R^4 a naphthalene ring including as a part thereof the benzene moiety of the formula (1); R^4 is hydrogen atom, or forms with R^3 a naphthalene ring including as a part thereof the benzene moiety of the formula (1); and R^5 is hydrogen atom, or forms $-\text{CH}_2\text{CH}_2-\text{CR}^8\text{R}^9-$ with R^2 ,



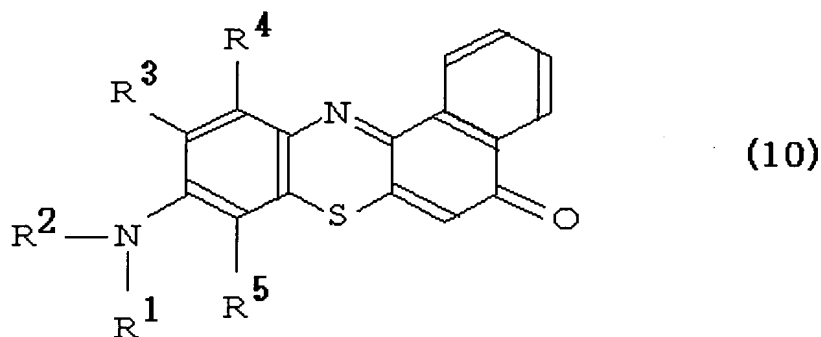
wherein Ar is the same as that defined in claim 3.

5. (Withdrawn) A Nile red luminescent compound emitting red light that has a structure represented by formula (9):



wherein R^1 is hydrogen atom or an alkyl group.

6. (Currently Amended) A Nile red luminescent compound emitting red light that has a structure represented by formula (10):

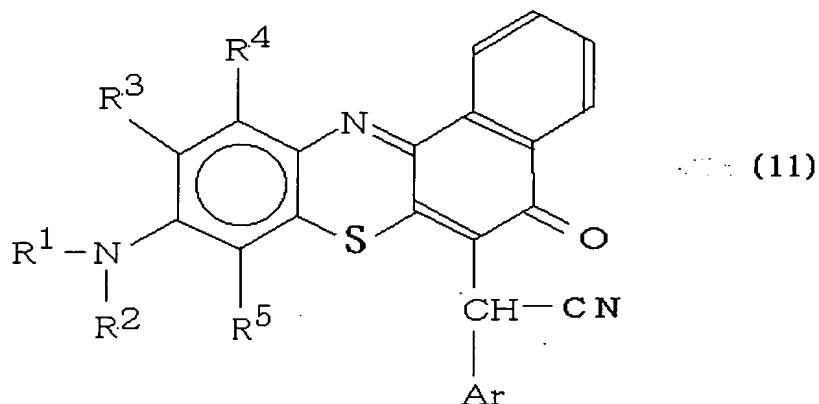


wherein R^1 is hydrogen atom or an alkyl group, or forms $-CH_2CH_2-CR^6R^7-$ together with R^3 (wherein the carbon atom of $-CR^6R^7-$ moiety is bound to the benzene moiety of the formula-(1) (10), each of R^6 and R^7 is hydrogen atom or an alkyl group, and R^6 and R^7 may be the same or different from each other); R^2 is hydrogen atom or an alkyl group, or forms $-CH_2CH_2-CR^8R^9-$ together with R^5 (wherein the carbon atom of $-CR^8R^9-$ moiety is bound to the benzene moiety of the formula-(1) (10), each of R^8 and R^9 is hydrogen atom or an alkyl group, and R^8 and R^9 may be the same or different from each other); R^3 is hydrogen atom, forms $-CH_2CH_2-CR^6R^7-$ with R^1 , or forms with R^4 a naphthalene ring including as a part thereof the benzene moiety of the formula-(1) (10); R^4 is hydrogen atom, or forms with R^3 a naphthalene ring including as a part thereof the benzene moiety of the formula-(1) (10); and R^5 is hydrogen atom, or forms $-CH_2CH_2-CR^8R^9-$ with R^2 , wherein at least one of R^1 and R^2 is not ethyl group, or at least one of R^3 , R^4 and R^5 is not a hydrogen atom.

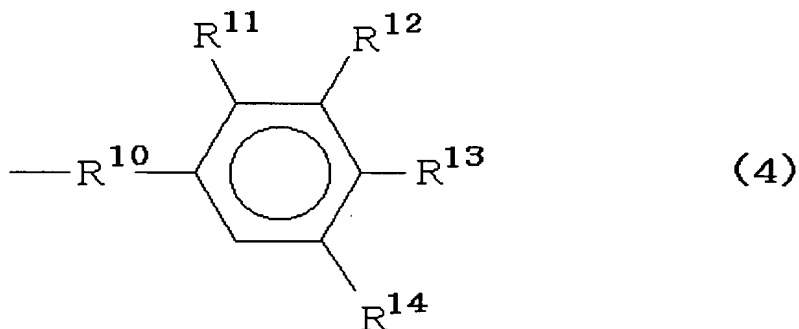
7. (Withdrawn) The process of producing the Nile red luminescent compound according to claim 5 comprising reacting 4-nitrosophenol with a carbazole, the nitrogen atom of which is bonded with a substituent R^1 , wherein R^1 is hydrogen atom or an alkyl group, to produce an intermediate compound, and reacting the intermediate compound with sulfur.

8. (Currently Amended) A process of producing the Nile red luminescent compound according to claim 6 comprising reacting ~~1-naphthol~~ 1-naphthol with a 4-nitrosoaniline, the amino group of which is bonded with substituents R^1 and R^2 , wherein each of R^1 and R^2 is hydrogen atom or an alkyl group, and R^1 and R^2 may be the same or different from each other, to produce an intermediate; and reacting the intermediate with sulfur.

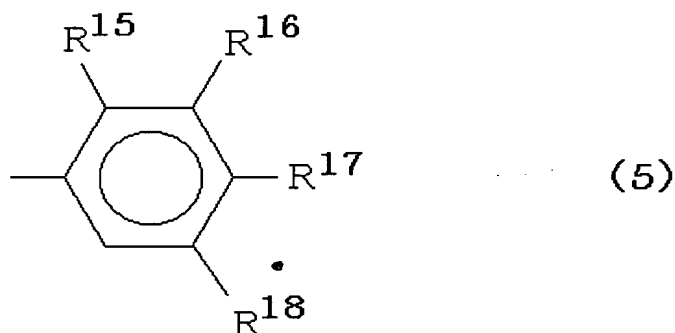
9. (Currently Amended) A Nile red luminescent compound emitting red light that has a structure represented by formula (11):



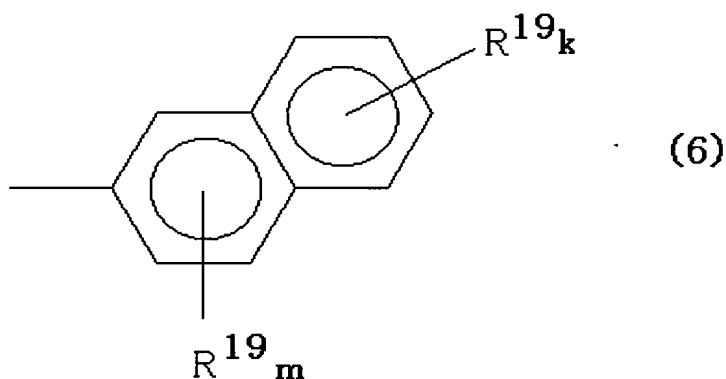
wherein R^1 is hydrogen atom or an alkyl group, or forms $-\text{CH}_2\text{CH}_2-\text{CR}^6\text{R}^7-$ together with R^3 (wherein the carbon atom of $-\text{CR}^6\text{R}^7-$ moiety is bound to the benzene moiety of the formula-(1) (11), each of R^6 and R^7 is hydrogen atom or an alkyl group, and R^6 and R^7 may be the same or different from each other); R^2 is hydrogen atom or an alkyl group, or forms $-\text{CH}_2\text{CH}_2-\text{CR}^8\text{R}^9-$ together with R^5 (wherein the carbon atom of $-\text{CR}^8\text{R}^9-$ moiety is bound to the benzene moiety of the formula-(1) (11), each of R^8 and R^9 is hydrogen atom or an alkyl group, and R^8 and R^9 may be the same or different from each other); R^3 is hydrogen atom, forms $-\text{CH}_2\text{CH}_2-\text{CR}^6\text{R}^7-$ with R^1 , or forms with R^4 a naphthalene ring including as a part thereof the benzene moiety of the formula-(1) (11); R^4 is hydrogen atom, or forms with R^3 a naphthalene ring including as a part thereof the benzene moiety of the formula-(1) (11); R^5 is hydrogen atom, or forms $-\text{CH}_2\text{CH}_2-\text{CR}^8\text{R}^9-$ with R^2 ; and Ar is the same as that defined in the claim 3 means one of formulae (4), (6) and (7):



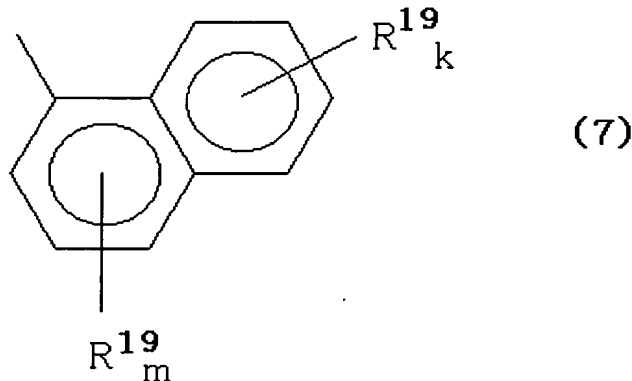
wherein R^{10} is a single chemical bond or methylene group; R^{11} is hydrogen atom, or forms $-CF_2-O-CF_2-$ with R^{12} ; R^{12} is fluorine atom, cyano group or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom, forms $-CF_2-O-CF_2-$ with R^{11} , or forms $-CF_2-O-CF_2-$ with R^{13} ; R^{13} is hydrogen atom, cyano group, fluorine atom or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom, forms $-CF_2-O-CF_2-$ with R^{12} , or is a group represented by formula (5); and R^{14} is hydrogen atom or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom when R^{13} is hydrogen atom, and R^{14} is hydrogen atom when R^{13} is not hydrogen atom,



wherein R^{15} is hydrogen atom, or forms $-CF_2-O-CF_2-$ with R^{16} ; R^{16} is fluorine atom, cyano group or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom, forms $-CF_2-O-CF_2-$ with R^{15} , or forms $-CF_2-O-CF_2-$ with R^{17} ; R^{17} is hydrogen atom, cyano group, fluorine atom or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom, or forms $-CF_2-O-CF_2-$ with R^{16} ; and R^{18} is hydrogen atom or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom when R^{17} is hydrogen atom, and R^{18} is hydrogen atom when R^{17} is not hydrogen atom,

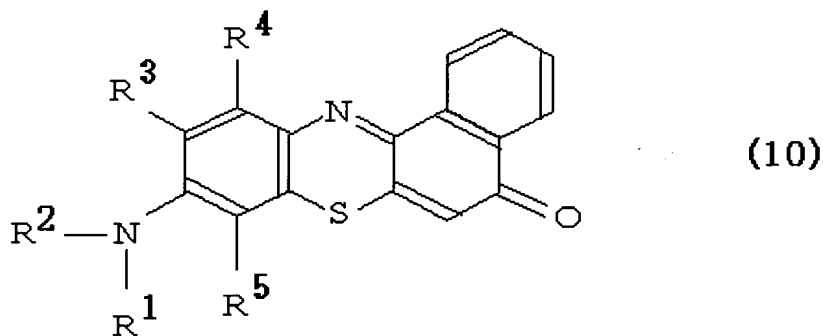


wherein R^{19} is fluorine atom, cyano group, or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom; k is an integer of 1-4, m is an integer of 1-3, and all of the R^{19} groups may be the same or different from each other,



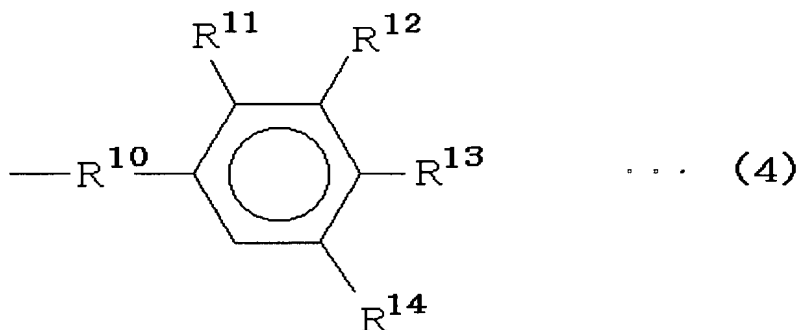
wherein R^{19} is fluorine atom, cyano group, or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom; k is an integer of 1-4, m is an integer of 1-3, and all of the R^{19} groups may be the same or different from each other.

10. (Currently Amended) A process of producing the Nile red luminescent compound emitting red light according to claim 9 comprising reacting the Nile red luminescent compound emitting red light represented by the formula (10):

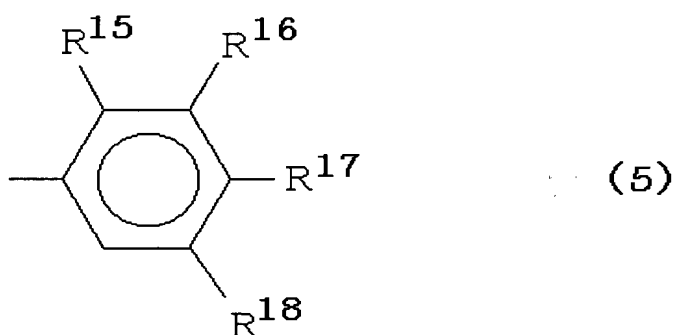


wherein R^1 is hydrogen atom or an alkyl group, or forms $-\text{CH}_2\text{CH}_2-\text{CR}^6\text{R}^7-$ together with R^3 (wherein the carbon atom of $-\text{CR}^6\text{R}^7-$ moiety is bound to the benzene moiety of the formula (10), each of R^6 and R^7 is hydrogen atom or an alkyl group, and R^6 and R^7 may be the same or different from each other); R^2 is hydrogen atom or an alkyl group, or forms $-\text{CH}_2\text{CH}_2-\text{CR}^8\text{R}^9-$ together with R^5 (wherein the carbon atom of $-\text{CR}^8\text{R}^9-$ moiety is bound to the benzene moiety of the formula (10), each of R^8 and R^9 is hydrogen atom or an alkyl group, and R^8 and R^9 may be the same or different from each other); R^3 is hydrogen atom, forms $-\text{CH}_2\text{CH}_2-\text{CR}^6\text{R}^7-$ with R^1 , or forms with R^4 a naphthalene ring including as a part thereof the benzene moiety of the formula

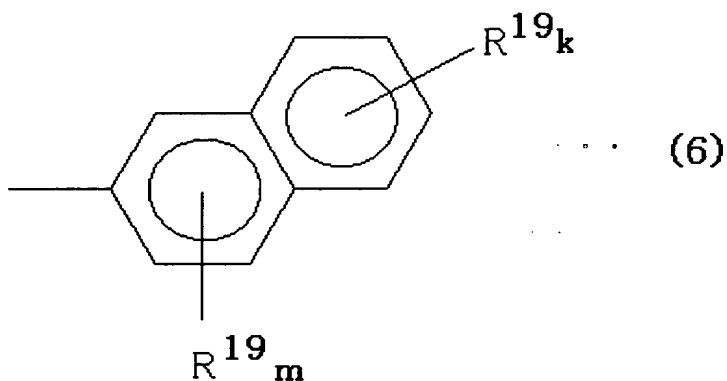
(10); R^4 is hydrogen atom, or forms with R^3 a naphthalene ring including as a part thereof the benzene moiety of the formula (10); and R^5 is hydrogen atom, or forms $-\text{CH}_2\text{CH}_2-\text{CR}^8\text{R}^9-$ with R^2 , with an electron attractive aromatic acetonitrile represented by the formula $\text{NC}-\text{CH}_2-\text{Ar}$, wherein Ar means one of formulae (4), (6) and (7):



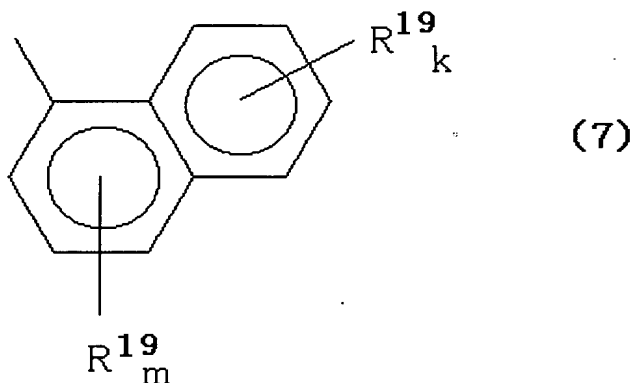
wherein R^{10} is a single chemical bond or methylene group; R^{11} is hydrogen atom, or forms $-\text{CF}_2-\text{O}-\text{CF}_2-$ with R^{12} ; R^{12} is fluorine atom, cyano group or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom, forms $-\text{CF}_2-\text{O}-\text{CF}_2-$ with R^{11} , or forms $-\text{CF}_2-\text{O}-\text{CF}_2-$ with R^{13} ; R^{13} is hydrogen atom, cyano group, fluorine atom or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom, forms $-\text{CF}_2-\text{O}-\text{CF}_2-$ with R^{12} , or is a group represented by formula (5); and R^{14} is hydrogen atom or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom when R^{13} is hydrogen atom, and R^{14} is hydrogen atom when R^{13} is not hydrogen atom,



wherein R^{15} is hydrogen atom, or forms $-\text{CF}_2-\text{O}-\text{CF}_2-$ with R^{16} ; R^{16} is fluorine atom, cyano group or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom, forms $-\text{CF}_2-\text{O}-\text{CF}_2-$ with R^{15} , or forms $-\text{CF}_2-\text{O}-\text{CF}_2-$ with R^{17} ; R^{17} is hydrogen atom, cyano group, fluorine atom or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom, or forms $-\text{CF}_2-\text{O}-\text{CF}_2-$ with R^{16} ; and R^{18} is hydrogen atom or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom when R^{17} is hydrogen atom, and R^{18} is hydrogen atom when R^{17} is not hydrogen atom,



wherein R^{19} is fluorine atom, cyano group, or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom; k is an integer of 1-4, m is an integer of 1-3, and all of the R^{19} groups may be the same or different from each other,



wherein R^{19} is fluorine atom, cyano group, or a lower alkyl having 1-5 carbon atoms and at least one fluorine atom; k is an integer of 1-4, m is an integer of 1-3, and all of the R^{19} groups may be the same or different from each other.

11. (Withdrawn) A luminescence element comprising a pair of electrodes and a light-emitting layer including at least one of the Nile red luminescent compounds as claimed in any one of claims 1, 3, 5, 6 and 9.

12. (Withdrawn) A luminescence element as claimed in claim 11, further comprising a hole-transporting layer between the light-emitting layer and a cathode, which is one of the electrodes.

13. (Withdrawn) A luminescence element as claimed in claim 12, the light-emitting layer further including a host pigment.

14. (Withdrawn) The luminescence element as claimed in claim 12, wherein the light-emitting layer and the hole-transporting layer are formed by deposition.

15. (Withdrawn) The luminescence element as claimed in claim 13, wherein the light-emitting layer and the hole-transporting layer are formed by deposition.

16. (Withdrawn) A luminescence element as claimed in claim 11, the light-emitting layer further including an electron-transporting substance and a hole-transporting high polymer.

17. (Withdrawn) The luminescent element as claimed in claim 16, wherein the light-emitting layer is formed through the application of the layer.

18. (Withdrawn) A layered article comprising the Nile red luminescent compound of claim 6.

19. (Withdrawn) A layered article comprising the Nile red luminescent compound of claim 9.

20. (Withdrawn) The layered article according to claim 18, which is in a form of a luminescence element comprising a substrate, a pair of electrodes, and at least one light-emitting layer sandwiched between the electrodes and including the Nile red luminescent compound, wherein the substrate has been provided with one of the electrode.

21. (Withdrawn) The layered article according to claim 19, which is in a form of a luminescence element comprising a substrate, a pair of electrodes, and at least one light-emitting layer sandwiched between the electrodes and including the Nile red luminescent compound, wherein the substrate has been provided with one of the electrode.

22. (Withdrawn) The layered article according to claim 20, further comprising a hole-transporting layer between the light-emitting layer and a cathode, which is one of the electrodes.

23. (Withdrawn) The layered article according to claim 21, further comprising a hole-transporting layer between the light-emitting layer and a cathode, which is one of the electrodes.

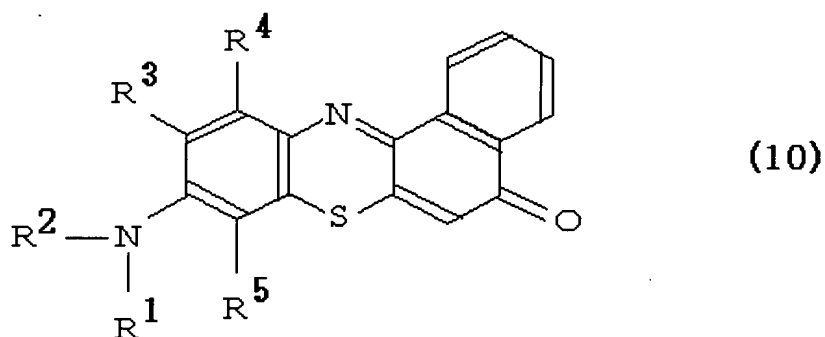
24. (Withdrawn) The layered article according to claim 22, wherein the light-emitting layer further comprises a host pigment.

25. (Withdrawn) The layered article according to claim 23, wherein the light-emitting layer further comprises a host pigment.

26. (Withdrawn) The layered article according to claim 20, wherein the light-emitting layer further comprises an electron-transporting substance and a hole-transporting high polymer.

27. (Withdrawn) The layered article according to claim 21, wherein the light-emitting layer further comprises an electron-transporting substance and a hole-transporting high polymer.

28. (New) A Nile red luminescent compound emitting red light that has a structure represented by formula (10):



wherein R^1 is hydrogen atom or an alkyl group, or forms $-\text{CH}_2\text{CH}_2-\text{CR}^6\text{R}^7-$ together with R^3 (wherein the carbon atom of $-\text{CR}^6\text{R}^7-$ moiety is bound to the benzene moiety of the formula (10), each of R^6 and R^7 is hydrogen atom or an alkyl group, and R^6 and R^7 may be the same or different from each other); R^2 is hydrogen atom or an alkyl group, or forms $-\text{CH}_2\text{CH}_2-\text{CR}^8\text{R}^9-$

together with R^5 (wherein the carbon atom of $-CR^8R^9-$ moiety is bound to the benzene moiety of the formula (10), each of R^8 and R^9 is hydrogen atom or an alkyl group, and R^8 and R^9 may be the same or different from each other); R^3 is hydrogen atom, forms $-CH_2CH_2-CR^6R^7-$ with R^1 , or forms with R^4 a naphthalene ring including as a part thereof the benzene moiety of the formula (10); R^4 is hydrogen atom, or forms with R^3 a naphthalene ring including as a part thereof the benzene moiety of the formula (10); and R^5 is hydrogen atom, or forms $-CH_2CH_2-CR^8R^9-$ with R^2 ,

wherein said Nile red luminescent compound is in an energized state to emit red light.